THE MINISTER OF STATE IN THE MINISTRY OF RAILWAYS, THE MINISTER OF STATE IN THE MINISTRY OF PARLIAMENTARY AFFAIRS AND THE MINISTER OF STATE IN THE MINISTRY OF PLANNING AND PROGRAMME IMPLEMENTATION (SHRI RAM NAIK): (a) to (c) Yes, Sir. The estimated potential of major non-conventional sources of energy and the achievements made in the State of Andhra Pradesh are given in the Statement (*see* below)

Statement

Details of estimated potential and cumulative achievements made under major non-conventional energy programmes of the Ministry upto 31st March, 1998 in the State of Andhra Pradesh

Sl. No.	Name of Programme	Estimated Potential	Cumulative achievements upto 31.03.98
1.	Biogas plants (Nos.)	10.65 lakhs	2.37 lakhs
2.	Improved Chulhas (Nos.)	97.08 lakhs	27.15 lakhs
3.	Biomass Gasifiers (Nos./Capacity)		1696.70 MW
4.	Integrated Rural Energy Programme (No. of Blocks taken up)		32
5.	Energy Parks (Nos.)		10
6.	Urjagram projects (Nos.)		20
7.	Solar Photovoltaic Systems		
	(i) Solar lanterns (Nos.)		6,283
	(ii) Home Lighting Systems (Nos.)		817
	(iii) Street lighting sistems (Nos.)		2996
	(iv) Community Lights/TV Systems (Nos.)		4
	(v) Power Plants (Non-grid connected) (Nos./capacity)		520.6 KWp
	(vi) Water Pumping Systems (Nos.)		421
8.	Solar Water Heating Systems.		10,000 sq. mt. collector area
9.	Solar Cooker (Nos.)		11,500
10.	Wind Mills/Aerogenator systems (capacity)		16KW
11.	Wind Power (capacity)	1000 MW	55.79 MW
12.	Small Hydro Power (capacity)	36MW	7.01MW
13.	Biomass Power (capacity)	200MW	6.00 MW
14.	Energy Recover from Urban, Municipal and Industrial Wastes	75 MW	2.75 MW
15.	Battery Operated Vehicles (Nos.)		6

Biomass Gasifiers in Gujarat

2524. SHRI AHMED PATEL: Will the PRIME MINISTER be pleased to state:

(a) whether Government are implementing any programme on Biomass Gasifiers (BGs) in Gujarat;

(b) if so, the details thereof, alongwith salient feautres of the programme;

(c) how many BG devices have, so far, been installed and power being generated therefrom in the State, district-wise;

(d) whether government propose to increase their number in the State in the near future; and

(c) if so, the details thereof?

THE MINISTER OF STATE IN THE MINISTRY OF RAILWAYS, THE MINISTER OF STATE IN THE MINISTRY OF PARLIAMENTARY AFFAIRS AND THE MINISTER OF STATE IN THE MINISTRY OF PLANNING AND PROGRAMME IMPLEMENTATION (SHRI RAM NAIK): (a) and (b) Yes, Sir. A Biomass Gasifiers Demonstration Programme (BGDP) is being implemented in all States and Union Territories, including Gujarat. The BGDP provides for financial incentives varying according to different ratings and applications for installation of biomass gasifiers, preparation of details project reports for village electrification purpose and service charges to State nodal agencies.

(c) A total of 167 biomass gasifier systems has been installed so far in Gujarat for thermal, mechanical and electrical applications as per district-wise details given below:

District	Number of biomass gasifiers installed
Ahmedabad	9
Amreli	13
Baroda	25
Bharuch	14
Bhavnagar	1
Jamnagar	2
Junagarh	9
Kheda	9
Kutch	7
Mehsana	6
Panchmahal	1
Porbander	1
Rajkot	7
Surat	15
Surendranagar	17
Valsad	31
Total	167

A total of about 45 lakh kilowatt hours equivalent is estimated to be generated per annum at present by the gasifier systems in use in different districts in the State.

(d) and (e) Yes Sir. All States and nodal agencies, including Gujarat Energy Development Agency, Vadodara have been requested to develop and send viable proposals for installation of biomass gasifiers during 1998-99 for sanctioning under BGDP. Besides, a 500 KW grid connected biomass gasifier system is being installed in the Kutch region for research and demonstration purpose under a separate scheme.

Energy Park and Urjagram Projects

2525. SHRI AHMED PATEL: Will the PRIME MINISTER be pleased to state:

(a) whether it is a fact that Government are implementing Energy Park Porject (EPP) and Urjagram Projects (UP) under Integrated Rural Energy Programme in the country;

(b) if so, what are the salient features of each of these programmes;

(c) how many EPP and UP are functioning at present in Gujarat, district-wise;

(d) whether Government propose to increase their number in the State during the Ninth Five Year Plna period; and

(e) if so, the details thereof?

THE MINISTER OF STATE IN THE MINISTRY OF RAILWAYS, THE MINISTER OF STATE IN THE MINISTRY OF PARLIAMENTARY AFFAIRS AND THE MINISTER OF STATE IN THE MINISTRY OF PLANNING AND PROGRAMME IMPLEMENTATION (SHRI RAM NAIK): (a) and (b) Yes, Sir. The Government are implementing the Energy Park Scheme and the Urjagram Projects. While the Energy Park Scheme is being implemented as a separate scheme under